

CLAIMS

1. (Currently Amended) A method for controlling a line blanker, said line blanker being for converting a stereoscopic image into a line-blanked stereoscopic image by alternately blanking even and odd lines of said stereoscopic image, whereby said line-blanked image can be viewed on a standard non-interleaved display device by a viewer wearing shutter glasses having a left eye viewing portion and a right eye viewing portion, said method comprising:

providing a stereoscopic image;

converting said stereoscopic image to said line-blanked image; and

providing a line blanker control signal embedded in said stereoscopic image, said line blanker being responsive to said control signal to enable or disable said line blanker,
wherein said control signal is embedded within a first line signal of said line-blanked image.

2. (Original) The method of claim 1, wherein said providing a control signal comprises providing a first line signal being for determining which line is the first line of said line-blanked image.

3. (Original) The method of claim 2, wherein said providing a first line signal further comprises providing a toggle signal, whereby said counter substantially continuously indicates a counter position relative to a first line of said line-blanked image.

4. (Original) The method of claim 1, wherein said providing a control signal comprises providing a line blanker enable signal, said enable signal being for turning on said line blanker.

5. (Original) The method of claim 1, wherein said providing a control signal comprises providing a line blanker disable signal, said disable signal being for turning off said line blanker.

a) 6. (Original) The method of claim 1, wherein said providing a line blanker control signal embedded in said stereoscopic signal comprises providing coded colors in said stereoscopic signal.

7. (Original) The method of claim 1, wherein said providing a control signal comprises providing a first line left signal, said first line left signal being for determining which line is a first line of said line blanked image and for indicating that the first line is for viewing by the left eye.

8. (Original) The method of claim 1, wherein said providing a control signal comprises providing a first line right signal, said first line right signal being for determining which line is a first line of said line-blanked image and for indicating that the first line is for viewing by the right eye.

9. (Original) The method of claim 1, wherein said providing a control signal comprises providing a first line control signal being for turning on said line blanker, turning off said line blanker and determining which line is the first line of said line-blanked image.

10. (Original) The method of claim 1, wherein said providing a control signal comprises providing a line double signal, said line double signal being for instructing said line blanker to select each one of 1) said even lines or 2) said odd line, store said selected line and place each stored line in a blanked line adjacent to said selected line for viewing by a viewer.

11. (Original) The method of claim 1, further comprising selecting each one of 1) said even lines or 2) said odd lines, storing said selected line and placing said stored line in a blanked line adjacent to said selected line for viewing by a viewer.

12. (Currently Amended) A line blanker that converts a stereoscopic image into a line-blanked stereoscopic image, whereby said line-blanked image can be viewed on a standard non-interleaved display device by a viewer wearing shutter glasses having a left eye viewing portion and a right eye viewing portion, said line blanker comprising:

a line interpolator that receives said stereoscopic image and alternately substitutes blanks for even or odd lines of said stereoscopic image;

a line doubler that places each line of said stereoscopic image in a line buffer and fills each of said blanks with a line of said stereoscopic image located immediately above each of said blanks;

an image fabrication unit that receives said stereoscopic image as adapted by said line interpolator and said line doubler and generates said line-blanked image;

a line processor that receives said stereoscopic image and said line-blanked image and selects one of said images to transmit to said display device; and

a control unit that monitors said stereoscopic image for a control signal and instructs said line processor which image to output based on said control signal, said control unit enables or disables said line blanker based on said control signal.

Q' 13. (Original) The line blanker of claim 12, said control unit further comprising a first line signal detector that detects a first line signal embedded in said stereoscopic image and sets said shutter glasses to selectively open either said left eye viewing portion or said right eye viewing portion based on said first line signal.

14. (Original) The line blanker of claim 12, wherein said control signal further comprises a toggle signal that toggles a counter, whereby said counter substantially continuously indicates a counter position relative to a first line of said line-blanked image.

15. (Original) The line blanker of claim 12, wherein said control signal comprises a specific pattern of embedded colors.

16. (Currently Amended) A line blanker that converts a stereoscopic image into a line-blanked stereoscopic image, whereby said line-blanked image can be viewed on a standard non-interleaved display device by a viewer wearing shutter glasses having a left eye viewing portion and a right eye viewing portion, said line blanker comprising:

a line buffer that receives said stereoscopic image and alternately substitutes blanks for even or odd lines of said stereoscopic image;

a line doubler that places each line of said stereoscopic image in a single line buffer and fills each of said blanks with a line of said stereoscopic image located immediately above each of said blanks;

a' an image fabrication unit that receives said stereoscopic image as adapted by said line buffer and said line doubler and generates said line-blanked image;

a line processor that receives said stereoscopic image and said line-blanked image and selects one of said images to transmit to said display device; and

a control unit that monitors said stereoscopic image for a control signal and instructs said line processor which image to output based on said control signal, said control unit enables or disables said line blanker based on said control signal.

17. (Original) The line blanker of claim 16, said control unit further comprising a first line signal detector that detects a first line signal embedded in said stereoscopic image and sets said shutter glasses to selectively open either said left eye viewing portion or said right eye viewing portion based on said first line signal.

18. (Original) The line blanker of claim 16, wherein said control signal further comprises a toggle signal that toggles a counter, whereby said counter substantially continuously indicates a counter position relative to a first line of said line-blanked image.

19. (Original) The line blanker of claim 16, wherein said control signal comprises a specific pattern of embedded colors.

20. (Currently Amended) A line blanker that converts a stereoscopic image into a line-blanked stereoscopic image, whereby said line-blanked image can be viewed on a flat panel display device by a viewer wearing shutter glasses having a left eye viewing portion and a right eye viewing portion, said line blanker comprising:

a line interpolator that receives said stereoscopic image and alternately substitutes blanks for even or odd lines of said stereoscopic image;

an image fabrication unit that receives said stereoscopic image as adapted by said line interpolator and generates said line-blanked image;

a line processor that receives said stereoscopic image and said line-blanked image and selects one of said images to transmit to said flat panel display device; and

a control unit that monitors said stereoscopic image for a control signal and instructs said line processor which image to output based on said control signal, said control unit enables or disables said line blanker based on said control signal.

21. (Currently Amended) A line blanker that converts a stereoscopic image into a line-blanked stereoscopic image, whereby said line-blanked image can be viewed on an LCD projection system by a viewer wearing shutter glasses having a left eye viewing portion and a right eye viewing portion, said line blanker comprising:

a line buffer that receives said stereoscopic image and alternately substitutes blanks for even or odd lines of said stereoscopic image;

Q! an image fabrication unit that receives said stereoscopic image as adapted by said line buffer and generates said line-blanked image;

a line processor that receives said stereoscopic image and said line-blanked image and selects one of said images to transmit to said LCD projection system; and

a control unit that monitors said stereoscopic image for a control signal and instructs said line processor which image to output based on said control signal, said control unit enables or disables said line blanker based on said control signal.
